

Ovens

Laboratory Ovens

UTD-1295 Laboratory Oven 50 lt., 220-240 V 50-60 Hz

UTD-1300 Laboratory Oven 120 lt., 220-240 V 50-60 Hz

UTD-1305 Laboratory Oven 250 lt., 220-240 V 50-60 Hz

UTD-1310 Laboratory Oven 500 lt., 380 V 50 Hz

UTD-1315 Laboratory Oven 700 lt., 380 V 50 Hz

UTEST Laboratory Ovens have been designed for the drying asphalt, soil, rock, concrete, aggregate or similar materials. Various litre capacity models are available. The ovens have a temperature range of ambient to 250°C. The interior of the ovens is manufactured from stainless steel and the exterior has been created from sheet steel and finished in powder coated paint.

All models are fan circulated (forced convection), fitted with a direct reading digital control unit and equipped with an analogue over-temperature protection thermostat. All ovens are supplied with 2, 3, 4 or 5 shelves, according to the capacity.

See last page for technical specifications



Muffle Furnaces

UTD-1450 Muffle Furnace 3 lt. 1000°C, 220-240 V 50-60 Hz

UTD-1455 Muffle Furnace 6 lt. 1100°C, 220-240 V 50-60 Hz

UTD-1460 Muffle Furnace 5 lt. 1200°C, 220-240 V 50-60 Hz

UTD-1462 Muffle Furnace 5 lt. 1200°C Programmable Timer, 220-240 V 50-60 Hz

UTD-1465 Muffle Furnace 5 lt. 1600°C, 380 V 50 Hz

The UTD Series Muffle Furnaces are used for determining various properties of construction materials. The various furnaces cover a temperature range of 1100°C to 1600°C. They are all front loading for easy operation and have been designed with a double skin to provide a cool outer case. The furnaces include a PID digital control system which allows for temperature control. The vertical counter balanced door opens in an upward movement and has been designed that way to avoid the hot insulation reaching the operator. When the door is opened, the power is isolated by the safety switch.

See last page for technical specifications



Ovens

Freezing and Thawing Chamber

UTD-1440

The Freezing and Thawing Chamber is used to measure the resistance to freezing and thawing.

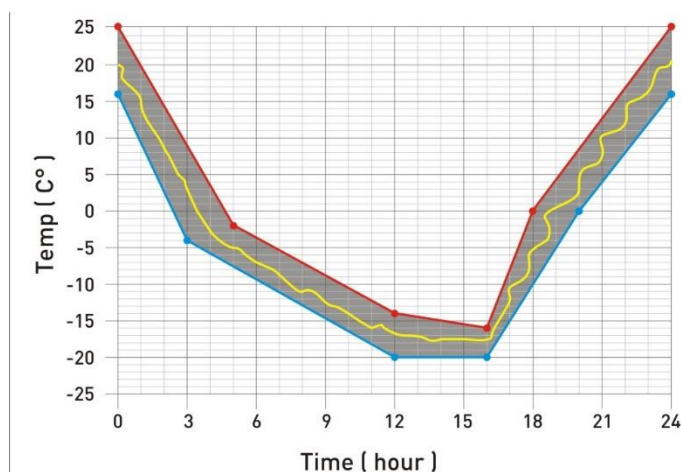
A sensor is placed either in the sample, in the water which the sample is placed into or, in the salty water solution placed on the sample before starting the test. The temperature of the chamber is then controlled by the sensor. The calibration of the sensor can be carried out using the user-friendly menu. An integral fan is used to distribute the temperature within the cabinet.

The chamber is equipped with a user defined program including 10 steps. Time can be adjusted to 999 minutes for each step of the program. The temperature in the cabinet can range from -30°C to $+30^{\circ}\text{C}$.

Data can be monitored during tests, and data transfer to a computer is achievable through software supplied with the cabinet. The data can be converted to an excel report or to a graph.

The condenser of the cabinet is fitted with an air cooled hermetic cooler. The gas used for the cooler does not include CFC's.

The control unit is electronic and equipped with digital display with 0.1°C temperature resolution. The temperature distribution accuracy in the cabinet is not higher than 2°C . The user can preset the time of each ramp and the number of each set by using the control unit.



Technical Specifications

Internal Dimensions	500x500x900 mm
External Dimensions	680x650x1980 mm
Weight (approx.)	140 kg
Power	1800 W



About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

- NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing
- Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal
- Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclometers, Extensometers, Tiltmeters, Load Cells and Dataloggers

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Technical Specifications

Ovens

	Capacity	Internal Dimension	External Dimension	Weight (approx.)
UTD-1295	50 Litre	410x350x360 mm	580x600x570 mm	20 kg
UTD-1300	120 Litre	610x500x400 mm	770x750x650 mm	56 kg
UTD-1305	250 Litre	800x600x570 mm	970x840x790 mm	85 kg
UTD-1310	500 Litre	1100x790x580 mm	1401x920x770 mm	130 kg
UTD-1315	700 Litre	1400x890x570 mm	1600x1130x770 mm	170 kg

Muffle Furnaces

	UTD-1450	UTD-1455	UTD-1460	UTD-1462	UTD-1465
Temperature Controller	HONEYWELL Dc1010	HONEYWELL Dc1010	HONEYWELL Dc1010	PC 442/2	HONEYWELL Dc1010
Max. Temperature	1000 OC	1100 OC	1200 OC	1200 OC	1600 OC
Max. Continuous Temperature	950 OC	1050 OC	1150 OC	1150 OC	1550 OC
Temperature Deviation at Set Point	± 2°C	± 2°C	± 2°C	± 2°C	± 2°C
Heat Up Time to Max. Temperature	50 min	65 min.	50 min.	50 min.	75 min.
Internal Volume	2.7 L	6.3 L	5 L	5 L	5 L
Phase	1	1	1	1	3
Internal Dimensions	100x135x200 mm	150x210x200 mm	140x180x200 mm	140x180x200 mm	140x150x240 mm
External Dimensions	425x320x360 mm	650x550x580 mm	650x550x580 mm	650x550x580 mm	650x550x580 mm
Weight (approx.)	20 kg	56 kg	56 kg	56 kg	65 kg
Power	2000 W	1500 W	2000 W	2000 W	4900 W